```
#include<stdio.h>
#include<conio.h>
#include<math.h>
#define max 20
#define cymax 199
int i,j,req,ttl tracks=0,cp,np,cposn,nposn;
int cyposn[max],temp;
void input()
{
do
 {
 clreol();
 printf("\n Enter the current header position : ");
 scanf("%d",&cposn);
 }while(cposn>cymax || cposn <=0);</pre>
 printf("\n Enter the %d I/O Requests : ",req);
 cyposn[0] = cposn;
 for (i=1;i<=req;i++)</pre>
 scanf("%d", &cyposn[i]);
void CLOOK()
for (i=0;i<=req;i++)</pre>
 for (j=0;j<req-i;j++)</pre>
   if(cyposn[j] > cyposn[j+1])
   temp = cyposn[j];
   cyposn[j] = cyposn[j+1];
    cyposn[j+1] = temp;
  }
  }
 }
 cp=0;
do
 if(cyposn[cp] == cposn)
  break;
 cp++;
 }while(cp!=req);
 printf("\nS.No. Current Position Next Position Displacement \n");
 printf("--
 i=0,j=cp;
 cposn = cyposn[cp];
 if(cp == req)
  { nposn = cyposn[0]; cp = 0; }
  nposn = cyposn[++cp];
 printf(" %d\t\t\d\t\t\d\n",++i,cposn,nposn,abs(cposn-nposn));
 ttl tracks += (abs(cposn-nposn));
 cposn = nposn == cyposn[req] ? cyposn[0] : nposn ;
 }while(nposn != cyposn[j-1]);
printf("-----
printf(" Total Tracks Displaced : %d",ttl_tracks);
void main()
{
 do
  clrscr();
 printf("\n Enter the number of requests : ");
  scanf("%d",&req);
 }while(req>max || req <=0);</pre>
```

```
input();
CLOOK();
getch();
```